

**THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Richard L. Franklin	:	Group Art Unit: 1648
	:	
Application No.: 10/750,184	:	Examiner: Zachariah Lucas
	:	
Filed: December 31, 2003	:	Attorney Docket No.: ARC-1001USCON1
	:	
For: REMOVING DENTAL PLAQUE	:	Confirmation No.: 4994
WITH KRILL ENZYMES	:	

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97(c)**

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Sir:

Pursuant to 37 C.F.R. § 1.97(c), Applicants bring to the attention of the Examiner the documents listed on the attached Substitute Form PTO 1449. A fee of \$180 is paid herewith to ensure consideration of this Information Disclosure Statement.

All of the references cited on the attached Substitute PTO 1449 were previously cited in the parent application (U.S. Patent Application No. 09/549,642, now abandoned), except for three U.S. Patents which are patents that issued on U.S. patent applications to which the present application claims benefit. Copies of the non-U.S. patent references can be found in the parent application.

Applicants respectfully request that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached Substitute PTO 1449 form.

This submission does not represent that a search has been made (37 C.F.R. §1.97(g)) or that no better art exists and does not constitute an admission that each or all of the listed documents are material (37 C.F.R. §1.97(h)) or constitute "prior art". The filing of this information disclosure statement shall not be construed as an admission against interest in any matter. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

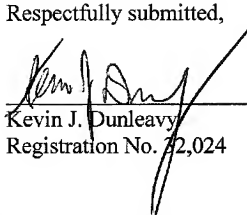
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Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed document, should one the document be applied against the claims of the present application.

Respectfully submitted,

Date: September 6, 2006

  
\_\_\_\_\_  
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		10750184
	Filing Date		2003-12-31
	First Named Inventor	Richard L. Franklin	
	Art Unit	1648	
	Examiner Name	Zachariah Lucas	
	Attorney Docket Number	ARC-1001USCON1	

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	2	61068419	JP		1986-04-08	Kao Corporation		<input type="checkbox"/>
	3	9319732	WO		1993-10-14	Unilever PLC		<input type="checkbox"/>
	4	9324142	WO		1993-12-09	Phairson Medical AB		<input type="checkbox"/>
	5	9419005	WO		1994-09-01	Albert Scheller		<input type="checkbox"/>
	6	9507686	WO		1995-03-23	Unilever PLC		<input type="checkbox"/>
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	1	Athie, Medicina (Mex) 45(961):145-150 (1965) [Spanish].	<input type="checkbox"/>
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4	Rathgeber WF, S. Afr. Med. J., (45(7):181-183 (1971) [English].	<input type="checkbox"/>
5	Coblentz, J. Am. Geriatr Soc., 16(9):1039-1046 (1968) [English].	<input type="checkbox"/>
6	V.N. Glozman, (10):57-59 (1990) [Russian].	<input type="checkbox"/>
7	T.K. Chuchnova, (10):52-55 (1990) [Russian].	<input type="checkbox"/>
8	Grant et al., Amino Acid Sequence of a Collageneolytic Protease from the Hepatopancreas of the Fiddler Crab, Uca Pugilator, Biochemistry, 19:4653-4659 (1980).	<input type="checkbox"/>
9	Grant and Eisen, Substrate Specificity of the Collagenolytic Serine Protease from Uca Pugilator: Studies with Noncollagegenous Substrates, Biochemistry, 19:6089-6095 (1980).	<input type="checkbox"/>
10	Grant et al., Collagenolytic Protease from Fiddler Crab (Uca Pugilator), Methods in Enzymology, 80:722-734 (1980).	<input type="checkbox"/>
11	Welgus et al., Substrate Specificity of the Collagenolytic Serine Protease from Uca Pugilator: Studies with Collagenous Substrates, Biochemistry, 21:5183-5189 (1982).	<input type="checkbox"/>
12	Grant et al., A Collagenolytic Serine Protease with Trypsin-Like Specificity from the Fiddler Crab Uca Pugilator, Biochemistry, 22:354-358 (1983).	<input type="checkbox"/>
13	Welgus and Grant, Degradation of Collagen Substrates by a Trypsin-Like Serine Protease from the Fiddler Crab Uca Pugilator, Biochemistry, 22:2228-2233 (1983).	<input type="checkbox"/>
14	Al-Mohanna et al., Mitotic E- and Secretory F-Cells in the Hepatopancreas of the Shrimp Penaeus Semisulcatus (Crustacea: Decapoda), J. Mar. Biol. Ass. U.K., 65:901-910 (1985).	<input type="checkbox"/>

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15	Lipman and Pearson, Rapid and Sensitive Protein Similarity Searches, Science, 227:1435-1441 (Mar. 22, 1985).	<input type="checkbox"/>
16	Gudmundsodottir et al., Isolation and Characterization of cDNAs from Atlantic Cod Encoding Two Different Forms of Trypsinogen, Eur. J. Biochem., 217, 1091-1097 (1993).	<input type="checkbox"/>
17	Lu et al., The Midgut Trypsins of Shrimp (Penaeus Monodon), Biol. Chem. Hoppe-Seyler, 371:851-859 (Sep. 1990).	<input type="checkbox"/>
18	Turkiewicz et al., Collagenolytic Serine Proteinase from Euphausia Superba Dana (Antarctic Krill), Comp. Biochem. Physiol., 99B:359-371 (1991).	<input type="checkbox"/>
19	Tsai et al., The Midgut Chymotrypsins of Shrimps (Penaeus Monodon, Penaeus Japonicus and Penaeus Penicillatus) Biochimica et Biophysica Acta, 1080:59-67 (1991).	<input type="checkbox"/>
20	Wormhoudt et al., Purification, Biochemical Characterization and N-Terminal Sequence of a Serine-Protease with Chymotryptic and Collagenolytic Activities in a Tropical Shrimp, Penaeus Vannamei (Crustacea, Decapoda), Comp. Biochem. Physiol., 103B(3):675-680 (1992).	<input type="checkbox"/>
21	Sellos and Wormhoudt, Molecular Cloning of a cDNA that Encodes a Serine Protease with Chymotryptic and Collagenolytic Activities in the Hepatopancreas of the Shrimp Penaeus Vanamei (Crustacea, Decapoda), FEBS, 309 (3):219-224 (Sep. 1992).	<input type="checkbox"/>
22	Klimova et al., The Isolation and Properties of Collagenolytic Proteases from Crab Hepatopancreas, Biochemical and Biophysical Research Communications, 166(3):1411-1420 (Feb. 1990).	<input type="checkbox"/>
23	Tsu et al., The Substrate Specificity of Uca Pugilator Collagenolytic Serine Protease 1 Correlates with the Bovine Type I Collagen Cleavage Sites, The Journal of Biochemical Chemistry, 269(30):19565-19572 (1994).	<input type="checkbox"/>
24	B. Johansson et al., Purification and Identification of Carboxy-Peptidase A and B from Antarctic Krill (Euphausia Superba), Biol. Chem. Hoppe Sryler, 367:366, Abstract 06.03.56 (1986).	<input type="checkbox"/>
25	A. Bucht et al., Immunological Characterization of Three Highly Purified Trypsin-Like Enzymes from Antarctic Krill (Euphausia Superba), Biol. Chem. Hoppe Sryler, 367:366, Abstract 06.03.55 (1986).	<input type="checkbox"/>

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26	Turkiewicz et al., Purification and Characterization of a Proteinase from Euphausia Superba Dana (Antarctic Krill), Acta Biochimica Polonica, 33(2):87-89 (1986).	<input type="checkbox"/>
27	Chen et al., Purification and Properties of Trypsin-Like Enzymes and a Carboxypeptidase A From Euphausia Superba, Journal of Food Biochemistry, 2:349-366 (1978).	<input type="checkbox"/>
28	Kimoto et al., Purification and Characterization of Serine Proteinases from Euphasia Superba, Agric. Biol. Chem., 47 (3):529-534 (1983).	<input type="checkbox"/>
29	Kimoto et al., Purification and Characterization of Chymotrypsin-Like Proteinase from Euphausia Superba, Agric. Biol. Chem., 49(6):1599-1603 (1985).	<input type="checkbox"/>
30	Knut Kr. Osnes et al., On the Purification and Characterization of Three Anionic, Serine-Type Peptide Hydrolases from Antarctic Krill, Euphausia Superba, Comp. Biochem. Physiol., 82B(4):607-619 (1995).	<input type="checkbox"/>
31	Knut Kr. Osnes et al., On the Purification and Characterization of Exopeptidases from Antarctic Krill, Euphausia Superba, Comp. Biochem. Physiol., 83B(2):445-458 (1986).	<input type="checkbox"/>
32	Knut Kr. Osnes et al., Hydrolysis of Proteins by Peptide Hydrolases of Antarctic Krill, Euphausia Superba, Comp. Biochem. Physiol., 83B(4):801-805, (1986).	<input type="checkbox"/>
33	Knut Kr. Osnes et al., Peptide Hydrolases of Antarctic Krill, Euphausia Superba, Comp. Biochem. Physiol, 82B (4):599-606, (1985).	<input type="checkbox"/>
34	Olav Seather et al., Proteolysis Post Mortem in North Atlantic Krill, Comp. Biochem. Physical, 88B(1):165-176 (1987).	<input type="checkbox"/>
35	Dialog Search relating to enzyme-based therapeutics.	<input type="checkbox"/>
36	J. Melrose et al., Evaluation of Digestive Proteinases from the Antarctic Krill Euphausia Superba, as Potential Chemonucleolytic Agents, Arch Orthop Trauma Surg., 114:145-152 (1995).	<input type="checkbox"/>

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37	Y. Sakharov, Potent Debriding Ability of Collagenolytic Protease Isolated from the Hepatopancreas of the King Crab Paralithodes Camtschatica, Arch Dermatol Res., 285:32-35 (1993).	<input type="checkbox"/>
38	Arthur Z. Eisen, A Collagenolytic Protease from the Hepatopancreas of the Fiddler Crab, UCA Pugilator, Purification and Properties, Biochemistry, 12(9):1814-1822 (1973).	<input type="checkbox"/>
39	Asuncion Olalla et la., Purification and Properties of Three Proteases from the Larvae of the Brine Shrimp Artemia Salina, Biochimica et Biophysica Acta, 523:181-190 (1978).	<input type="checkbox"/>
40	Spindler et al., Partial Characterization of Chitin Degrading Enzymes from Two Euphausiids, Euphausia Superba, and Meganyctiphanes Norvegica, Polar Biology, 9:115-122 (1988).	<input type="checkbox"/>
41	Karlstam and Ljunglof, Detection and Partial Purification of a Hyaluronic Acid-Degrading Enzyme from Antarctic Krill (Euphausia Superba, ), Biol. Chem. Hoppe Seyler, 367:339 (1986).	<input type="checkbox"/>
42	Kimoto et al., Acid Proteinases from Antarctic Krill, Euphausia Superba: Partial Purification and Some Properties, Journal of Food Science, 46:1881-1884 (1981).	<input type="checkbox"/>
43	Kraft and Falkenberg, Biol. Chem. Hoppe Seyler, 353:1540-1541 (1972).	<input type="checkbox"/>
44	Anheller et al., Biochemical and Biological Profile of a New Enzyme Preparation from Antarctic Krill (E. Superba) Suitable for Debridemen of Ulcerative Lesions, Archives of Dermatology Research, 281:105-110 (1989).	<input type="checkbox"/>
45	Sakharov et al., Purification and Characterization of Two Serine Collagenolytic Proteases from Crab Paralithodes Camtschatica, Comp. Biochem. Physiol., 108B:561-568 (1994).	<input type="checkbox"/>
46	Gates et al., Isolation of Comparative Properties of Shrimp Trypsin, Shrimp Trypsin, 8(11):4483-4489 (1969).	<input type="checkbox"/>
47	Dialog Search relating to cysteine protease.	<input type="checkbox"/>



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48	Von P. Billigmann, Fortschr Med., 113(4):43-48 (1995) [German].	<input type="checkbox"/>
49	Theodor Nasemann et al., Hautarz, 18(1):31-35 (1967) [German].	<input type="checkbox"/>
50	V. Mazza, Folia Med., 52(9):565-578 (1969) (Napoli).	<input type="checkbox"/>

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- ☒ See attached certification statement.
- ☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
- ☐ None

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A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/KEVIN J. DUNLEAVY/	Date (YYYY-MM-DD)	2006-09-06
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	4	5134119		1992-07-28	Lezdey John et al.		
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	1	Berenshtein, Antibiotiki, 23(11):1002-1005 (1978) [German].	<input type="checkbox"/>
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	4	Poul Kjer, Nordisk Medicin, 75(14):390-391 (1966).	<input type="checkbox"/>
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	6	Gotishchev, Sovetskaia Meditsina, (5):80-83 (1978) [German].	<input type="checkbox"/>
	7	DiMarco, Clin Pediatr, (Bologna), 52(1):34-45 (1970) [Italian].	<input type="checkbox"/>

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8	Tokuda, Nippon Ganka Kiyo, 19(10):993-998 (1968) [Japanese].	<input type="checkbox"/>
9	Jacobs, J Am Podiatry Assoc., 55(11):743-746 (1965) [English].	<input type="checkbox"/>
10	Goodfriend, J Am Podiatry Assoc., 55(9):667-669 (1965) [English].	<input type="checkbox"/>
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12	Geller, Khirurgiia (Mosk), 49(2):64-65 (1973) [Russian].	<input type="checkbox"/>
13	Demianiuk, Klin Khir, 8:56-60 (1972) [Russian].	<input type="checkbox"/>
14	Grigorian, Klin Khir, 9:1-4 (1971) [Russian].	<input type="checkbox"/>
15	Bar, Lille Med., 15(5):827-847 (1970) [French].	<input type="checkbox"/>
16	Riffat, Lyon Med., 226(13):103-106 (1971) [French].	<input type="checkbox"/>
17	Gacon, Lyon Med., 222(43):997-1000 (1969) [French].	<input type="checkbox"/>
18	Bazerque, Medicina (B. Aires), 32(4):357-362 (1972) [Spanish].	<input type="checkbox"/>

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		10750184
	Filing Date		2003-12-31
	First Named Inventor	Richard L. Franklin	
	Art Unit	1648	
	Examiner Name	Zachariah Lucas	
	Attorney Docket Number	ARC-1001USCON1	

19	Gordillo Fernandez, Medicina (Mex), 45(973):490-493 (1965) [Spanish].	<input type="checkbox"/>
20	Lopez Reyes, Medicina (Mex), 45(964):221-223 (1965) [Spanish].	<input type="checkbox"/>

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Examiner Signature		Date Considered	
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10750184
Filing Date	2003-12-31
First Named Inventor	Richard L. Franklin
Art Unit	1648
Examiner Name	Zachariah Lucas
Attorney Docket Number	ARC-1001USCON1

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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

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- ☒ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
- ☐ None

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A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/KEVIN J. DUNLEAVY/	Date (YYYY-MM-DD)	2006-09-06
Name/Print	KEVIN J. DUNLEAVY	Registration Number	32,024

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